



Specification for Hyper-Data 1000 CAT5e UTP Stranded LSZH Lan Cable

Spec. No. S881003 Version: B Date: March 25th, 2008

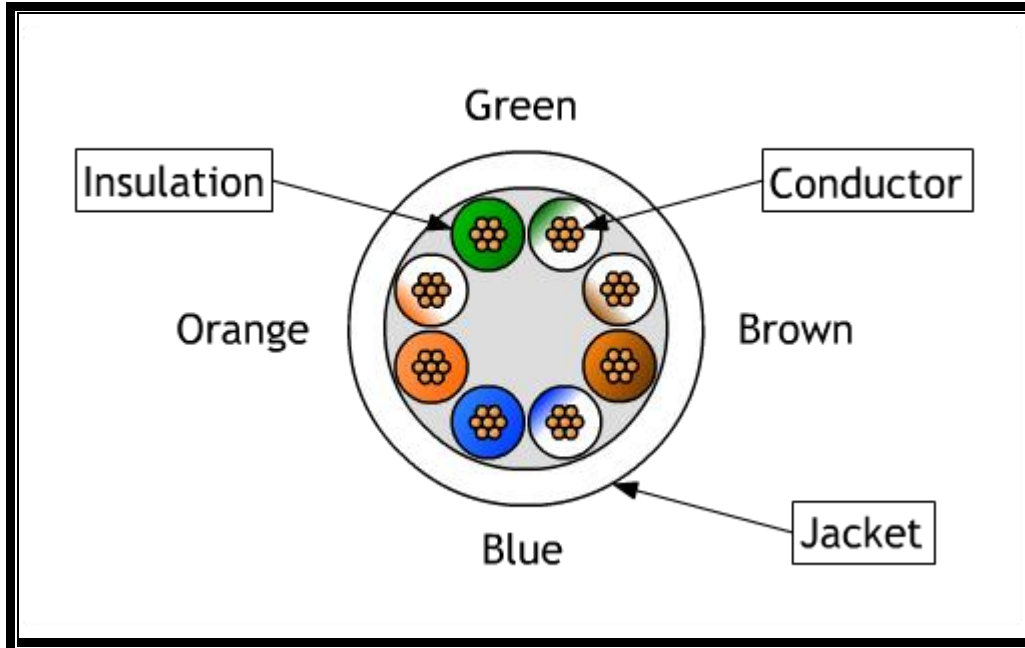
TIA/EIA-568-B.2: Patch Cable (Stranded Conductor), 24 AWG x 4P

1. **Conductor:** Stranded Bare Copper (7 x 32 AWG)
2. **Insulation :** HDPE (CMI-75E)
Nominal Wall Thickness: 0.178mm
Min. Thickness: 0.153mm
3. **Color Code:**
Pair 1: Blue & White/Blue
Pair 2: Orange & White/Orange
Pair 3: Green & White/Green
Pair 4: Brown & White/Brown
4. **Jacket:** 75 °C LSZH Compound
Nominal Wall Thickness: 0.585mm
Min. Thickness: 0.458mm
Overall Diameter: 5.5mm ± 0.3mm
5. **Electric Requirements:** (Cable length: 100m)
Characteristic Impedance(Z_0): 85 ~ 115 Ω (1 ~ 100 MHz)
DC. Resistance Capacitance Unbalance: 5%
Pair-to-Ground Capacitance Unbalance: 330 pF/100m Max.
Conductor Resistance: 8.76 Ω /100m 20°C Max.
Mutual Capacitance: 5.6nF/m Max.
Spark Test: 2.5kV
Nominal Velocity of Propagation (NVP): 69%

RoHS Compliant



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Frequency MHz	Att. Stranded	Pr-Pr NEXT	PS NEXT	Prop. Delay ns	Delay Skew ns	Return Loss	Pr-Pr ELFEXT	PS ELFEXT
1	2.4	65.3	62.3	538.5	45	20.0	63.8	60.8
10	7.4	50.3	47.3	545.0	45	25.0	43.8	40.8
16	9.5	47.3	44.4	539.9	45	25.0	39.7	36.7
20	10.7	45.8	42.8	540.2	45	25.0	37.7	34.7
25	12.1	44.4	41.3	540.8	45	24.2	35.8	32.8
31.25	13.7	42.9	39.9	541.4	45	23.3	33.9	30.9
62.5	20.0	38.4	35.4	542.5	45	20.7	27.8	24.8
100	26.1	35.3	32.3	543.0	45	19.0	23.8	20.8